

ABSTRACT OF THE DISCLOSURE

A system for sensing at least one characteristic parameter of a tyre fitted to a vehicle includes a movable unit and a fixed unit. The movable unit is combined with the tyre and includes a device for sensing the at least one characteristic parameter, a device for transmitting signals out of the tyre, a processing unit, and a storage device. The fixed unit is combinable with the vehicle and includes a device for receiving signals from the movable unit. The processing unit and storage device carry out pre-processing of a signal generated by the sensing device and send the pre-processed signal to the transmitting device. The movable unit may also include a device for generating electrical energy that is capable of supplying the processing unit and the transmitting device. The transmitted signal relates to the at least one characteristic parameter. The movable unit and a vehicle wheel are also disclosed.